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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/735,149	12/12/2000		Nikolai Nefedov	297-009990-US(PAR)	4688
7590 02/08/2005		02/08/2005		EXAMINER	
Clarence A. C	Green		WONG, BLANCHE		
Perman & Gree 425 Post Road			ART UNIT	PAPER NUMBER	
Fairfield, CT 06430				2667	
				DATE MAIL ED: 02/08/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	A (1 4/)
	Application No.	Applicant(s)
	09/735,149	NEFEDOV, NIKOLAI
Office Action Summary	Examiner	Art Unit
	Blanche Wong	2667
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 16 Ju	<u>ly 2004</u> .	
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.	
3) Since this application is in condition for allowant closed in accordance with the practice under E		
Disposition of Claims		
 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,12,15 is/are rejected. 7) Claim(s) 3-11,13,14 and 16-28 is/are objected 8) Claim(s) are subject to restriction and/or 	vn from consideration. to.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 12 December 2000 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		•
1) Notice of References Cited (PTO-892)	4) Interview Summary	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear whether "said signal received during a time slot" in In. 7 refers to "a signal for the whole duration of a time slot" in In. 4 or "a signal received during a time slot" in In. 5.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1,2,12,15 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Lucent Technologies Inc (EP 0 980 153 A2, as provided by applicant).

With regard to claim 1, Lucent discloses a method for conveying information of users (multiplexing communication connections) (col. 1, In. 17-22) in TDM (telecommunication system based on time division multiple access) (col. 1, In. 27-40) The method comprises the steps of:

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- defining a burst structure (603,604 in Fig. 6) that consists of symbols (col. 9, ln. 25) and fills a time slot (ln TDM, it is inherent that frames comprises timeslots (col. 1, ln. 31-32).) at a radio interface,
- filling the burst structure (603,604 in Fig. 6) with symbols (A frames has six SYNC fields (col. 9, In. 14). A SYNC field contains 14 symbols (col. 9, In. 25).), thus composing a transmission burst (603,604 in Fig. 6), and

-transmitting the transmission burst with a time slot (603 of U1 in Fig. 6); wherein the step of filling the burst structure with symbols comprises the substeps of:

-taking information symbols (first DATA | D1 in 603) of a first kind and filling a first part of the burst therewith,

-taking information symbols (second DATA | D1 in 603) of a second kind and filling a second part of the burst therewith and

-taking control symbols (signaling information, col. 9, ln. 22-23 and ln. 34) and filling certain control parts (PLT) of the burst therewith.

With regard to claim 2, Lucent also discloses a base station to mobile stations (Fig. 1) and co-shared downlink frame format (col. 9, ln. 11) and co-shared subslot configuration (col. 9, ln. 21) (separating different downlink transmission) comprises the steps of:

-taking information symbols (first DATA | D1 in 603 in Fig. 6) belonging to a first downlink communication connection between said base station and a mobile station and filling a first data field in the burst therewith, and

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-taking information symbols (second DATA | D1 in 603 in Fig. 6) belonging to a second downlink communication connection between said base station and a mobile station and filling a second part of the burst therewith.

With regard to claim 12, it is inherent that there is a burst formatter and means for providing the burst formatter in order to create the transmission burst with data structure such as 603 or 604 in Fig. 6. It is also inherent to receive successful, as oppose to unsuccessful, information symbols.

With regard to claim 15, in a typical scenario in a TDMA system (col. 1, In. 41-42) with two mobile equipment 100,112 in Fig. 1, where one of the two mobile equipment is a transmitter of bursts with data structure such as 603 or 604 (claim 12), the other of the two mobile equipment is the receiver. Therefore, it is inherent that there is a burst decomposer and means for separately attempting the decoding of different sequences of information symbols extracted from a transmission burst. It is also inherent to receive successful, as oppose to unsuccessful, information symbols.

Response to Arguments

5. Applicant's arguments filed July 16, 2004 have been fully considered but they are not persuasive.

Applicant argues that the claims reads "the use of two different kinds of data symbols to occur in a single burst. Remark, p. 18, para. 2. However, a timeslot or subslot has no structure and is an amount of time used to transmit a data burst. A burst in the Lucent reference is a data structure such as 603 or 604 in Fig. 6.

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Applicant asked the Examiner to show a teaching of "mixing two kinds of data symbols into a single burst." Remark, p. 19, para. 1. There are the first and second DATA | D1 in burst structure 603 in Fig. 6 in the Lucent reference.

Allowable Subject Matter

- 6. Claims 3-11,13-14,16-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kw.

BW

February 2, 2005

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